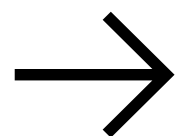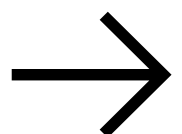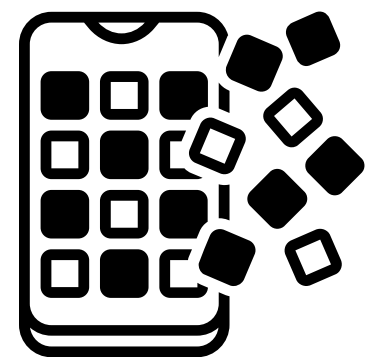# 6

STAGES OF SOFTWARE DEVELOPMENT LIFE CYCLE (SDLC)

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SDLC or app-development life cycle is a process to build a software methodologically.

- Requirements Gathering
- Software Analysis
- Design Architecture
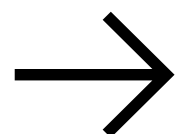- Development
- Testing
- Deployment and Maintenance

Step 1: Requirements Gathering

This is the first and the most important step. It determines how your software will look and perform.
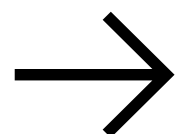
You should know the following:
- The target audience and purpose of the software.
- The problem to be solved.

Step 2: Software Analysis

In this step you will draw the project timeline and scope.

This step also helps you understand the functional and non-functional requirements of the project.
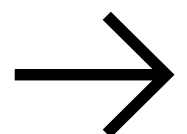
Step 3: Design Architecture

In this step, you design the architecture of the software.

You may propose one or more design approaches at this step.
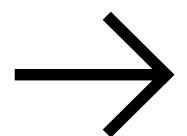
There are two types of design
1. High-level design.
2. Low-level design.

Step 4: Development

This is where the (magic) happens!

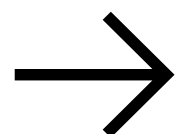The developers build the code, test, integrate and manage expectations.

Step 5: Testing

This step is crucial to find the bugs and errors of the software.
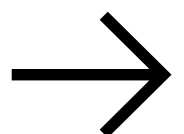
There are 4 types of testing:
1. Unit testing
2. Integration testing
3. Acceptance testing
4. System testing

Step 6: Deployment & Maintenance

In this step the software is released in the market.

The team regularly keeps updating the software to ensure it is relevant to the current market needs.

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